Play a Tune

This program turns MiRo into a piano using the individual touch sensors.

Program Start
repeat while [true]
do set [piano_keys] to [Body Touch sensors]
    count with [i] from [1] to [14] by [1]
    do set [key] to [in list [piano_keys] get [#] [i]]
        if [key]
        do Run code [print "key ", i, "pressed"]
            Play tone of [[i] × [100]] Hz for [0.5] seconds at volume [100]
        set [key] to [false]
    Wait for [0.1] Seconds

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BEST WAY TO DEMONSTRATE

Simulator: *Good*   Robot: *Very effective*

SENSORS & OUTPUTS USED

Body touch sensors and speakers

DESCRIPTION

This demonstration program works excellently on the physical robot by assigning a different tone output to each body sensor. This effectively turns MiRo into a piano with the sensors being the keys. You can now use MiRo to compose a range of melodies!

EXTENSIONS

- Compose a tune or replicate another song.

- Produce a dance that MiRo can move along with to a tune. This can involve MiRo's body, head or ears moving to the song.